First and Final Bill

DOR => 06/04/2018

M.A.R. 57 (Rule 116)

Measurement Book

189501

No. C/09

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....M/s KRIDL.....

Date of ~~commencement~~ completion of work.....12/02/2018.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of the work: Improvements to Roads and foot path Pipeline Road Mallasandra colony in Mallasandra ward no: 13 Shettihalli Sub division						
	Estimate cost Rs 30.00 Lakhs						
	Job code NO: 013-18-000050						
	AS NO: → EE/PD/AS/13/17-18						
	TS NO: → CE/DZ/TS/232/2017-18						
	W.O.NO: → EE/PD/W.O/03/2017-18 dated 10-11-2017						

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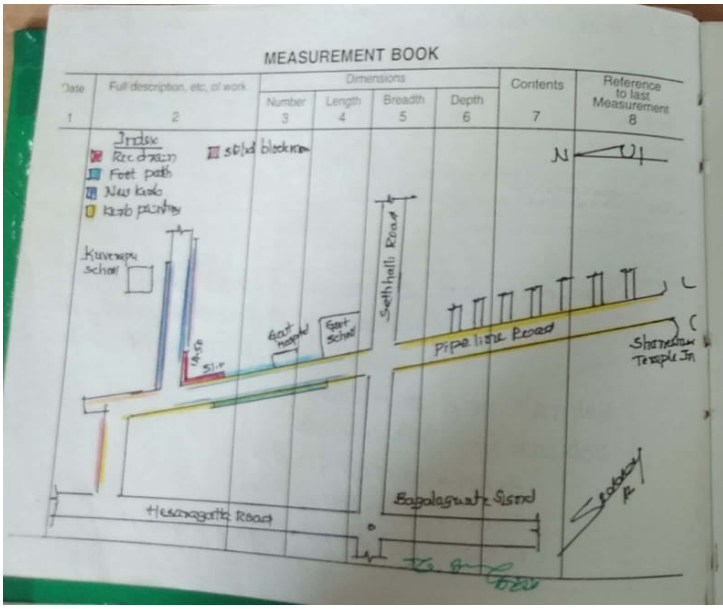
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



M.A.R. 57 (Rule 116)
Measurement Book
No. C/09 189502

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1) Earth work excavation by manual means in ordinary soil involving an horizontal throw up to 2m and an average lift up to 1.5m excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after breaking of clods etc complete as per specification						
	BF for measurement Recorded in this MB vide page No: 189561						
	i.e 101.77 m^3 @ Rate Rs 175.96/m^3					Rs 17,907.45	

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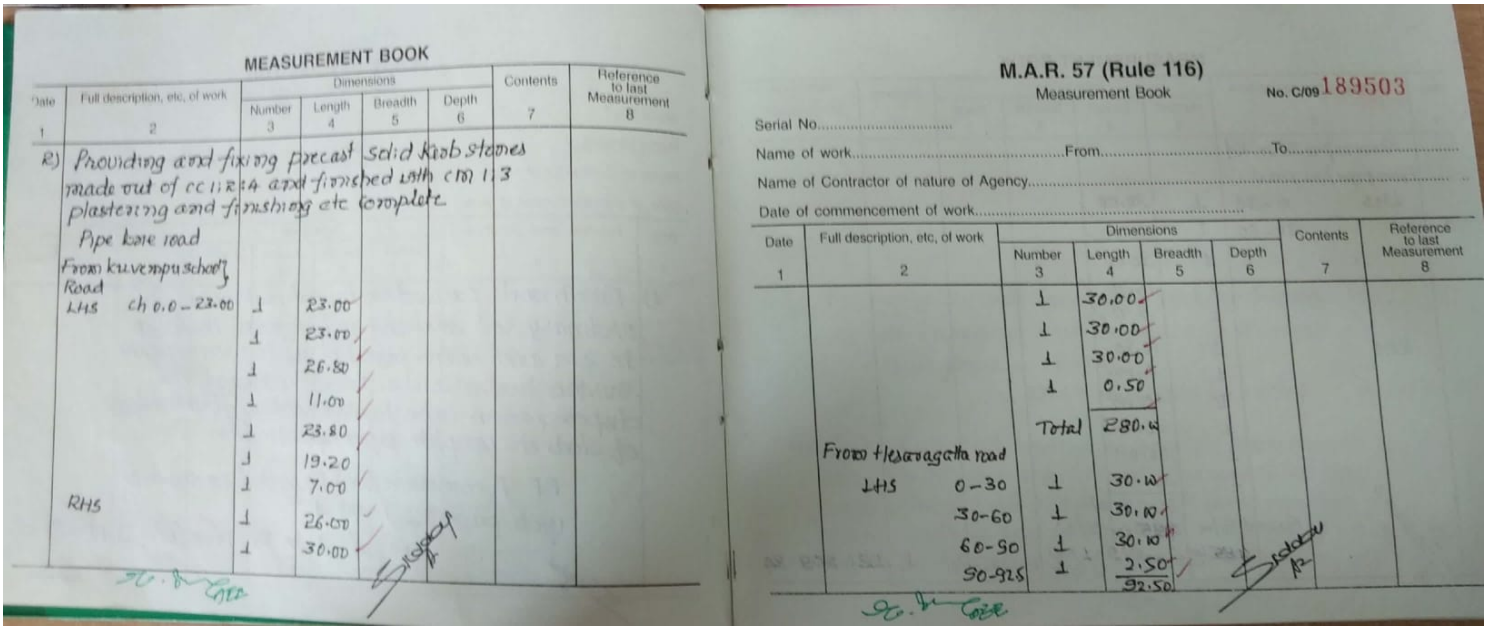

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	R) Providing and fixing precast solid kerb stones made out of cc 1:2:4 and finished with cm 1:3 plastering and finishing etc complete.						
	Pipe kere road						
	From kuvempu school Road						
	LHS ch 0.0 – 23.00	1	23.00				
		1	23.00				
		1	26.80				
		1	11.00				
		1	23.80				
		1	19.20				
	RHS	1	7.00				
		1	26.00				
		1	30.00				

M.A.R. 57 (Rule 116)
Measurement Book
No. C/09 189503

Serial No.....
Name of work.....From.....To.....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
		1	30.00				
		1	30.00				
		1	30.00				
		1	0.50				
		Total	280.4				
	From Hesaragatta road						
	LHS 0–30	1	30.10				
	30–60	1	30.10				
	60–90	1	30.10				
	90–92.5	1	2.50				
			92.50				

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Kuruvapu Shari Rd From pipe line road						
	LHS 0-30	1	30.00				
	30-60	1	30.00				
		1	30.00				
		1	15.70				
		1	5.10				
	RHS	1	10.50				
		1	4.00				
		1	10.00				
		1	30.00				
		1	30.00				
		1	30.00				
			215.30	Mtr			
	Ground Total		495.40	Mtrs			
	495.40 x 0.43 = 213.02 Nos @ Rate					Rs 385.54/-	Rs 424809=54

M.A.R. 57 (Rule 116)
Measurement Book
No. C/09 189504

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
3)	Removing BS slab drain cover stacking the same BF Premeasurement Recorded in this MB vide page no: 189561 i.e 88.43 m^2 @ Rate Rs 65.72/-					Rs 5811=29	
4)	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm & d/s graded granite metal machine mixed concrete laid in layers not exceeding 15 cms well compacted etc complete as per specification						

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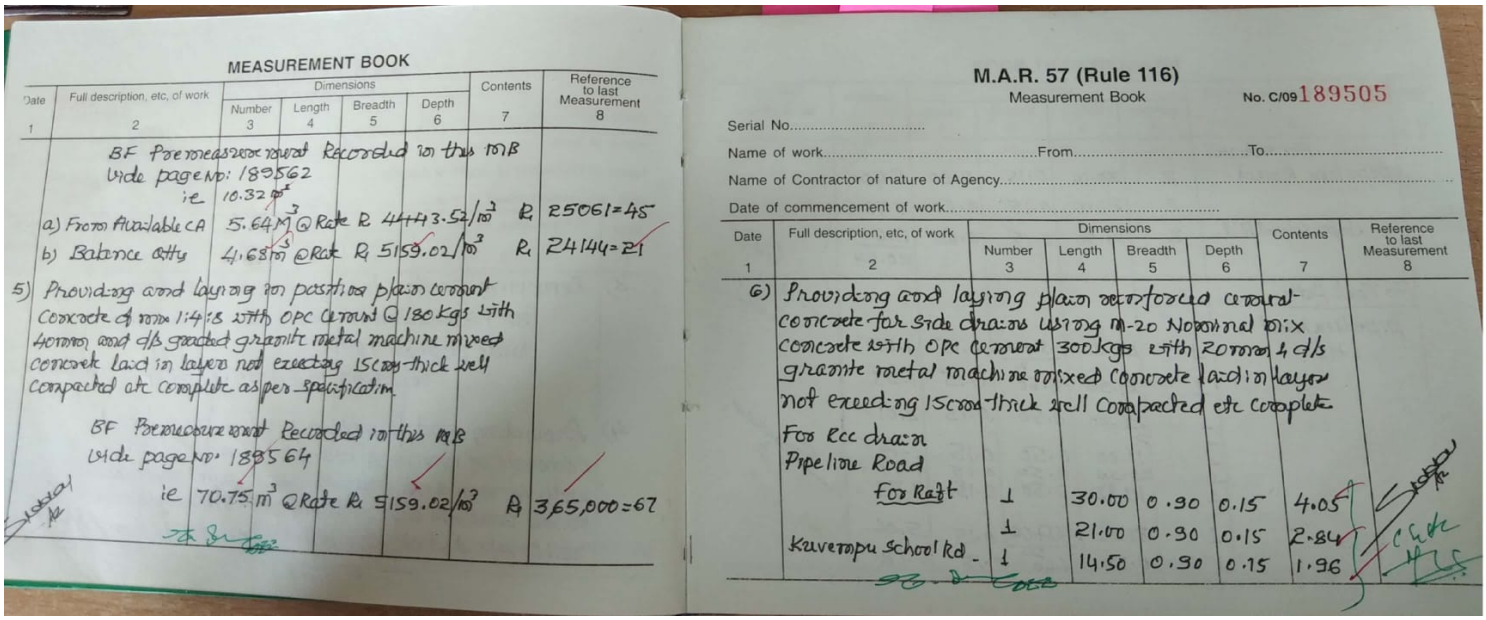

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	BF Premeasurement Recorded in this MB vide page No: 189562						
	ie 10.32 m²						
	a) From Available CA	5.64 m³	@ Rate ₹ 4443.52/m³			₹	25061=45
	b) Balance Qtty	4.68 m³	@ Rate ₹ 5159.02/m³			₹	24144=21
5)	Providing and laying in position plain cement Concrete of mix 1:4:8 with OPC Cement @ 180 kgs with 40mm and d/s graded granite metal machine mixed concrete laid in layers not exceeding 15cm thick well compacted etc complete as per specification.						
	BF Premeasurement Recorded in this MB vide page No: 189564						
	ie 70.75 m³ @ Rate ₹ 5159.02/m³					₹	365,000=67

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 189505

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	Providing and laying plain reinforced cement concrete for side drains using M-20 Nominal mix concrete with OPC cement 300kgs with 20mm & d/s granite metal machine mixed Concrete laid in layers not exceeding 15cm thick well Compacted etc complete.						
	For Rcc drain						
	Pipeline Road						
	For Right	1	30.00	0.90	0.15	4.05	
		1	21.00	0.90	0.15	2.84	
	Kaverampu school Rd -	1	14.50	0.90	0.15	1.96	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	For side wall						
	pipeline Road -	2	30.00	0.15	0.60	5.40	
		2	21.00	0.15	0.60	3.78	
	Kuveraapu school Rd	2	14.50	0.15	0.60	2.61	
						20.64	
	For Foot path						
	pipeline Road						
	LHS	1	22.30	$\frac{0.50+0.60}{2}$	0.15	1.83	
		1	21.50	0.60	0.15	1.93	
		1	26.80	0.50	0.15	2.01	
		1					
		1	11.00	0.50	0.15	1.74	
		1	23.30	0.50	0.15	1.74	
		1	19.20	0.50	0.15	1.72	
	RHS	1	30.00	$\frac{0.65+1.60}{2}$	0.15	5.06	
		1	0.50	1.60	0.15	0.12	

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 189506

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{1.60+1.30}{2}$	0.15	5.17	
		1	30.00	$\frac{1.30+1.60}{2}$	0.15	5.17	
		1	30.00	$\frac{1.00+0.90}{2}$	0.15	4.27	
		1	24.60	0.90	0.15	3.32	
	Kuveraapu school Road RHS	1	10.00	$\frac{0.45+0.30}{2}$	0.15	1.12	
		1	30.00	$\frac{0.30+0.45}{2}$	0.15	3.37	
		1	30.00	$\frac{0.30+0.20}{2}$	0.15	2.27	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	LHS	1	20.60	0.50	0.15	1.54	
		1	30.00	0.50	0.15	2.25	
		1	30.10	0.50	0.15	2.25	
		1	15.50	0.50	0.15	1.16	
						48.43	
						Total 69.04 m^3	
						@ Rate Rs 11032.43/m^3 Rs	761682=42
7)	Providing TMT steel reinforcement for RCC works including straightening cutting, bending hooking and placing in position etc Complete						
	BF for measurement Recorded in this MB vide page No: 189565						
	ie	1.24 Tonnes		@ Rate Rs	6423.62	Rs	79661=84

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 189507

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8)	Providing and laying in position reinforced precast slabs of mix 1:1.5:3 using 20mm and d/s graded granite metal. 100mm thick slabs.						
	pipeline Road LHS:						
	ch 0 - 22.30	1	22.30	0.90	–	20.07	
	26.80 - 48.30	1	21.50	0.90	–	19.35	
	99.50 - 126.40	1	26.80	0.90	–	24.12	
	189.50 - 212.80	1	23.30	0.90	–	20.97	
	215.20 - 228.80	1	13.60	0.90	–	12.24	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Kilimanjaro School Road						
	LHS	3	30.10	0.90	–	81.09	
		1	24.50	0.90	–	22.05	
	RHS	3	30.00	0.90	–	81.00	
		1	11.20	0.90	–	10.08	
	Missing bits & pipe Ex road	1	10.00	0.90	–	9.00	
		2	20.00	0.90	–	36.00	
		1	15.00	0.90	–	13.50	
		1	15.00	0.90	–	13.50	
						361.95 m²	
	@Rate @ 1957/-					@ 708394=86	

M.A.R. 57 (Rule 116)
Measurement Book
No. 189508

Serial No.
Name of work From To
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
E.1)	Providing two coats after filling the surface with Synthetic enamel paint in approved pleat on new plastered concrete surfaces etc complete.						
	For Kesh						
	pipeline LHS	3	30.00	0.35	–	31.50	
		1	2.00	0.35	–	0.70	
		1	20.00	0.35	–	7.00	
		1	22.30	0.35	–	7.81	
		1	21.50	0.35	–	7.53	
		1	26.80	0.35	–	9.38	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	Sethihalli Road Jn to Shaneshwara Temple Jn }	18	30.00	0.35	—	189.00	
	RHS	6	30.00	0.35	—	63.00	
		1	24.60	0.35	—	8.61	
	Sethihalli Road Jn to Shaneshwara Temple Jn }	18	30.00	0.35	—	189.00	
	Kuvempa school Road LHS –	3	30.00	0.35	–	31.50	
		1	11.40	0.35	–	3.99	
	RHS –	3	30.00	0.35	—	31.50	
		1	24.50	0.35	—	8.58	
						589.10 m²	
	Limited to 580.06 m²						
	@ Rate Rs 63.60/m²					Rs 36891=82	

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 189509

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
12)	Providing and constructing Load bearing wall with solid Concrete blocks of size 400x150x200 mm having block density not less than 1800 kg/m³ and having Compressive strength not 5.00 N/mm² with Cement mortar 1:4 etc complete as per spec: & lead						
	BF Premeasurement Recorded in this MB vide page no: 189564						
	ie 242.40 m² @ Rate Rs 881.36/m²					Rs 213520	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
E3	Providing and laying in position plain cement concrete of mix 1:2:4 25th Cement at 240 kgs per 1m³ 20mm and d/s granite metal machine mixed coarse laid in layers not exceeding 15 cms thick well compacted etc complete as per Specification.						
	BF pre measurement Recorded in this M/B vide page no: 189565						
	i.e 6.82 m³ @ Rate ₹ 5767.46/m³					₹	39334-08
						Sub Total ₹	27,02,220-39
	Add KRIDL charges @ 11%					₹	2,97,244-24
						Grand Total ₹	29,99,464-63

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09 189510

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate						
	1. Certified that the contractor completed the work satisfactorily						
	2. Certify that the contractor cleared all debris & work spot						

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

06/04/2018

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	P-1875				Gross -		2999464.
					IT -		59989-
					Lwc -		29995-
					Sd -		149973-
					Ry -		24313
					GST -		3000
					Dedn		267270.
					net		2732194

Audited and admitted for Rs. 2999464/-

Passed by Cheque for Rs. 2732194/-

(Twenty Seven lakhs Thirty two thousand one hundred and ninety four only)

by accountancies 267270/-

Accounts Superintendent

Exe. Engineer

B.B.M.P Dasarahalli Division

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Premeasurement

M.A.R. 57 (Rule 116)

189560

Measurement Book

No. C/09

Serial No. Name of work: Estimate for improvements to Roads and Foot'path pipeline road @ Mallasandra in ward No: 13

Name of work.....From.....To.....

Name of Contractor of nature of Agency M/s KRIDL

Date of commencement of work..... Job Code No: 013-18-000050

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1)	Earth work excavation by manual means.						
	For cc drain						
	pipeline road LHS						
	Ch 0 - 22.30	1	22.30	1.05	1.00	23.42	
	Ch 26.8 - 48.30	1	21.50	1.05	1.00	22.58	
	Ch 99.60 - 106.80	1	7.20	1.05	1.00	7.56.	
	Kaveripura school Road	1	14.50	1.05	1.00	15.23	
						68.79	
	For Kerb						
	Pipeline Road LHS	1	23.30	0.30	0.30	2.10	
		1	23.00	0.30	0.30	2.07	

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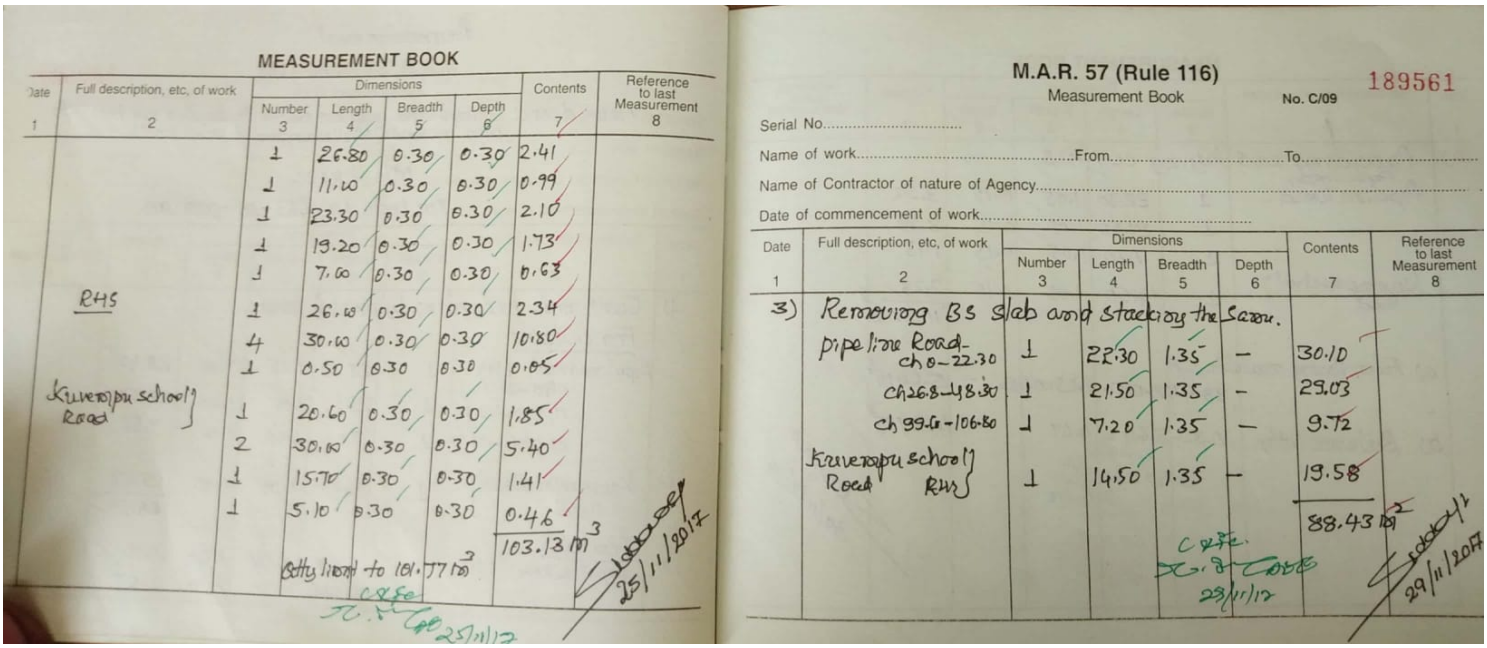

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	26.80	0.30	0.30	2.41	
		1	11.00	0.30	0.30	0.99	
		1	23.30	0.30	0.30	2.10	
		1	19.20	0.30	0.30	1.73	
		1	7.00	0.30	0.30	0.63	
	RHS	1	26.00	0.30	0.30	2.34	
		4	30.00	0.30	0.30	10.80	
		1	0.50	0.30	0.30	0.05	
	Kuveripu school Road	1	20.60	0.30	0.30	1.85	
		2	30.00	0.30	0.30	5.40	
		1	15.70	0.30	0.30	1.41	
		1	5.10	0.30	0.30	0.46	
						103.13 m^3	
		Bothy lionn to 101.77 m^3					

C&Se. 25/11/17

25/11/2017

M.A.R. 57 (Rule 116)
Measurement Book
No. C/09

189561

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
3)	Removing BS slab and stacking the Sasou.						
	pipeline Road- ch 0-22.30	1	22.30	1.35	–	30.10	
	ch 26.8-48.30	1	21.50	1.35	–	29.03	
	ch 99.6-106.80	1	7.20	1.35	–	9.72	
	Kuveripu school Road RHS	1	14.50	1.35	–	19.58	
						88.43 m^3	

C&Se. 29/11/17

29/11/2017

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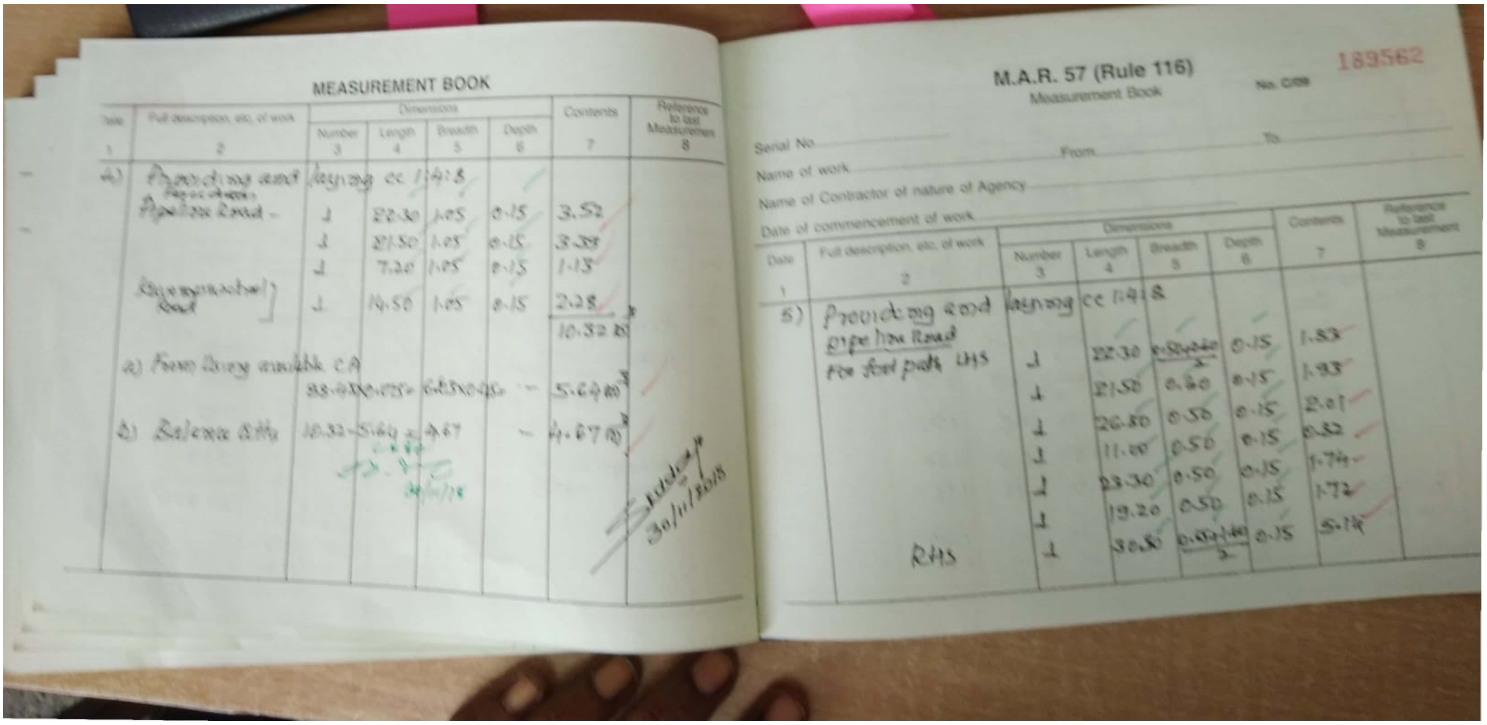

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
4)	Providing road [illegible] cc 1:4:8						
	Pipeline Road -	1	22.30	1.05	0.15	3.52	
		1	21.50	1.05	0.15	3.39	
		1	7.20	1.05	0.15	1.13	
	[illegible] Road	1	14.50	1.05	0.15	2.28	
						10.32	
a)	From Quary available CA						
	88.40×0.075=	6.63×0.95				5.6400	
b)	Balance 10%	10.32-5.64 = 4.67				4.67	

Submitted 30/11/2018

M.A.R. 57 (Rule 116)
Measurement Book
No. 039 189562

Serial No.
Name of work
From To
Name of Contractor of nature of Agency
Date of commencement of work

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
5)	Providing road [illegible] cc 1:4:8						
	pipe line Road						
	for foot path LHS	1	22.30	0.80+0.40 / 2	0.15	1.83	
		1	21.50	0.80	0.15	1.93	
		1	26.80	0.50	0.15	2.01	
		1	11.00	0.50	0.15	0.82	
		1	23.30	0.50	0.15	1.74	
		1	19.20	0.50	0.15	1.72	
	RHS	1	30.80	0.80+0.40 / 2	0.15	5.78	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	30.00	$\frac{1.60+1.30}{2}$	0.15	6.52	
		1	30.00	$\frac{1.30+1.10}{2}$	0.15	5.17	
		1	30.00	$\frac{1.10+0.90}{2}$	0.15	4.27	
		1	24.60	0.90	0.15	3.32	
	Kawaapa school Road LHS	1	10.00	$\frac{0.16+0.70}{2}$	0.15	1.12	
		1	30.10	$\frac{0.30+0.45}{2}$	0.15	3.35	
		1	30.10	$\frac{0.30+0.70}{2}$	0.15	2.27	
	RHS	1	20.60	0.50	0.15	1.54	
		2	30.10	0.50	0.15	4.50	
		1	15.50	0.50	0.15	1.16	
	Behind kwb Pipeline Road	1	23.30	0.30	0.15	1.04	
		1	23.00	0.30	0.15	1.04	

M.A.R. 57 (Rule 116)
Measurement Book
No. C/09

189563

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	26.80	0.30	0.15	1.21	
		1	11.00	0.30	0.15	0.50	
		1	23.30	0.30	0.15	1.05	
		1	19.20	0.30	0.15	0.86	
		1	7.00	0.30	0.15	0.32	
	RHS	1	26.10	0.30	0.15	1.17	
		4	30.00	0.30	0.15	5.40	
		1	0.50	0.30	0.15	0.03	
	Kawaapa school Road LHS	1	20.60	0.30	0.15	0.93	
		2	30.00	0.30	0.15	2.70	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	15.70	0.30	0.15	0.71	
		1	5.10	0.30	0.15	0.23	
	RHS	1	10.50	0.30	0.15	0.47	
		1	4.10	0.30	0.15	0.18	
		1	10.10	0.30	0.15	0.45	
		3	30.10	0.30	0.15	4.05	
					Total	70.75 M3	
	E2) Boundary & Construction Road bearing wall						
	Pipeline Road	2x3	30.00	0.40	–	72.00	
		2x1	12.00	0.40	–	9.60	
	Kaliveroppa school Rd LHS	2x3	30.00	0.40		72.00	
		2x1	11.00	0.40		8.80	

M.A.R. 57 (Rule 116)

Measurement Book

No. C/09

189564

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	RHS	2x3	30.10	0.40	–	72.10	
		1x2	10.10	0.40	–	8.10	
						242.40 M2	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
E3)	Providing and laying CC 1:2:4 for copings						
	pipeline Road	2 x 3	30.00	0.15	0.075	2.03	
		2 x 1	12.00	0.15	0.075	0.27	
	Kaveripuram school Road LHS	2 x 3	30.00	0.15	0.075	2.03	
		2 x 1	11.00	0.15	0.075	0.25	
	RHS	2 x 3	30.00	0.15	0.075	2.03	
		2 x 1	10.00	0.15	0.075	0.23	
						6.84 m³	
		Betty transit to 6.82 m³					

25/12/17

25/12/2017

M.A.R. 57 (Rule 116)

Measurement Book No. C/09 189565

Serial No.....

Name of work.....From.....To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
7)	Providing 7 mm steel Reinforcement for RCC work.						
	U shape bars	843	1.80	—	1517.40		
	straight bars -	7	30.00	-	210.00		
		7	21.00	-	147.00		
		7	14.50	-	101.50		
					1975.90 m		
	10 mm ϕ 1975.90 m @ 0.62 kg/m ⇒ 1225.05 kg						
	Betty transit to 1224 kg						
	⇒ 1.24 Tonnes.						

25/12/17

25/12/2017

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